CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/CEMENT/2020-21

Date: 04.11.2020

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
*** Name of Work**	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
***Reference**	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
*** Sample ID**	:	Cement For SSM in 11th Main Park. Sahakarnagar
Sample Received on	:	03.11.2020
Period of Testing	:	03.11.2020 to 04.11.2020
Report Issue Date	:	04.11.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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****

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Pooja K.L.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/SAND-Gradation/2020-21 04.11.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of Work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
*Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Fine Aggregates (Manufactured Sand) For SSM in 1th main Sahakar
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	03.11.2020
Date of Testing	:	04.11.2020
Report Issue Date	:	04.11.2020

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.60	90-100	90-100	90-100	95-100
2.36	79.10	60-95	75-100	85-100	95-100
1.18	58.40	30-70	55-90	75-100	90-100
600 Micron	38.20	15-34	35-59	60-79	80-100
300 Micron	16.00	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/AGG/GR/2020-21 04.11.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
*** Name of Work**	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
***Reference**	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
*** Sample ID**	:	Coarse Aggregates (40mm) for RCC in 11th Main Sahakarnagar
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	03.11.2020
Date of Testing	:	04.11.2020
Report Issue Date	:	04.11.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.20	95-100	85-100
20	40.16	30-70	0-20
10	15.84	10-35	0-5
4.75	3.22	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/AGG/GR/2020-21 04.11.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
*** Name of Work**	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
***Reference**	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
*** Sample ID**	:	Coarse Aggregates (20mm) For Cutting Concrete in Sahakaranagar 11th Main Park
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	03.11.2020
Date of Testing	:	04.11.2020
Report Issue Date	:	04.11.2020

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	96.96	95-100	85-100
10	30.66	25-55	0-20
4.75	5.16	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/SAND-Gradation/2020-21 04.11.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of Work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
*Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
*Sample ID	:	Sand for masonry mortars for ISM in Sahakaranagar 17th Main Park.
Test Method As Per	:	IS - 2116 : 1980 (RA-2017)
Sample Received on	:	03.11.2020
Date of Testing	:	04.11.2020
Report Issue Date	:	04.11.2020

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (RA-2017)
4.75	100.00	100
2.36	98.50	90-100
1.18	92.70	70-100
600 Micron	77.60	40-100
300 Micron	27.80	5-70
150 Micron	7.60	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/CC Solid Block/2020-21 06.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of Work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
Test Method As Per	:	IS: 2185 (Part-1) : 2005 (RA-2015)
Size of Blocks	:	400mm x 150mm x 200mm For compound wall at Dhobighat in Hebbal
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	04.11.2020
Date of Testing	:	06.11.2020
Report Issue Date	:	06.11.2020

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2015)
1	Block 1	25.12	251.3	4.19	Minimum required Compressive Strength of Individual Units 4.00 N/mm^2
2	Block 2	24.95	259.8	4.33	
3	Block 3	26.85	261.5	4.36	
4	Block 4	26.61	276.1	4.60	
5	Block 5	24.02	280.4	4.67	
6	Block 6	25.31	265.0	4.42	
7	Block 7	26.98	289.7	4.83	
8	Block 8	24.13	293.7	4.90	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/CC Solid Block/2020-21 06.11.2020

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
*** Agency**	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
*** Name of Work**	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
*** Reference**	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
Test Method as per	:	IS - 2185 (Part-1) : 2005 (RA-2015)
Size of Blocks	:	400mm x 150mm x 200mm for Compound wall in dhobighat in Hebbal.
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	04.11.2020
Date of Testing	:	06.11.2020
Report Issue Date	:	06.11.2020

Sl.No.	Size of Block in mm	Density in Kg/m^3	Average Density Kg/m^3	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2015)
1	400x150X200	2231.750	2321.67	1800 kg/m^3
2	400x150X200	2346.520		
3	400x150X200	2386.741		

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/Steel/2020-21 09.11.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Samples ID	:	8mm Bar For Columns in Dhobi ghat in Hebbal.
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	09.11.2020
Report Issue Date	:	09.11.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	513	554	13.05	O.K	O.K

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Job No.: CTCE/BBMP/MSV/W.No-07/Steel/2020-21 09.11.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Samples ID	:	10 mm Bar For Columns in Dhobi ghat in Hebbal & Nitty
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	09.11.2020
Report Issue Date	:	09.11.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.10	O.K	O.K

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Job No.: CTCE/BBMP/MSV/W.No-07/Steel/2020-21 09.11.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Samples ID	:	12 mm Bar for Plinth of compound wall in Kodaighat Hebbal.
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	09.11.2020
Report Issue Date	:	09.11.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	561	13.25	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 16.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm Concrete for Coping for SSM in Sukanagarpa
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.12.2020
Report Issue Date	:	16.12.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.11.2020	16.12.2020	8.122	486.1	21.61
2	18.11.2020	16.12.2020	8.316	474.5	21.09
3	18.11.2020	16.12.2020	8.452	499.8	22.21

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21

16.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm Cubing Concrete for Compound wall in Dhobi Ghat Hebbal.
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.12.2020
Report Issue Date	:	16.12.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.11.2020	16.12.2020	8.412	502.1	22.32
2	18.11.2020	16.12.2020	8.365	479.7	21.32
3	18.11.2020	16.12.2020	8.275	482.5	21.44

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 16.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm for columns for Compound wall in Dhobi Ghat Hebbal.
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.12.2020
Report Issue Date	:	16.12.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.11.2020	16.12.2020	8.159	490.1	21.78
2	18.11.2020	16.12.2020	8.264	506.7	22.52
3	18.11.2020	16.12.2020	8.311	500.1	22.23

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JoJob No.: CTCE/BBMP/MSV/W.No-07/MS Angle/2020-21 09.12.2020

TEST REPORT ON STRUCTURAL STEEL

***Customer**	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
***Agency**	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
***Name of Work**	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
***** Reference**	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
Samples ID	:	Samples Supplied By Agency
Specimen Size	:	ISA-65X65X6mm Angle Chain link fencing in Shakuntala Park 19th Main
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

Sl.No	Description	Result
1	Thickness	6.04 mm
2	Width	65.00 mm
3	Weight / Meter	5.85 Kg

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/Fencing/2020-21 09.12.2020

TEST REPORT ON M.S PIPE

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020–21 Date:13.08.2020
* Samples ID	:	MS Pipe 38mm Dia For Chaindlinli fencing in Sahakaranagar Park
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

Sl.No	Description	Result
1	Thickness	2.12 mm
2	Inner Diameter	38.09 mm
3	Outer Diameter	42.29mm
4	Weight / Meter	1.912 kg

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/Fencing/2020-21 09.12.2020

TEST REPORT ON CHAIN LINK FENCING WIRE

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Samples ID	:	Chain link fencing- 8th gauge in Sahakaranagar Park 5th Main Road
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

Sl.No	Description	Result
1	Diameter	4.09 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.194 Kg

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 20.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm For Compound wall Coking in Hebbal
Cross Sectional Area	:	22500 mm^2 Dr obs Ghat
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.01.2021
Report Issue Date	:	20.01.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2020	20.01.2021	8.369	381.2	16.94
2	23.12.2020	20.01.2021	8.258	393.5	17.49
3	23.12.2020	20.01.2021	8.147	389.7	17.32

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 20.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.01.2021
Report Issue Date	:	20.01.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2020	20.01.2021	8.465	370.1	16.45
2	23.12.2020	20.01.2021	8.197	394.7	17.54
3	23.12.2020	20.01.2021	8.277	384.1	17.07

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 20.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.01.2021
Report Issue Date	:	20.01.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2020	20.01.2021	8.187	366.7	16.30
2	23.12.2020	20.01.2021	8.306	362.8	16.12
3	23.12.2020	20.01.2021	8.225	386.4	17.17

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/Cube/2020-21 20.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of the work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
* Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
* Sample ID	:	Cement Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.01.2021
Report Issue Date	:	20.01.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2020	20.01.2021	8.437	402.2	17.87
2	23.12.2020	20.01.2021	8.109	396.9	17.64
3	23.12.2020	20.01.2021	8.275	360.4	16.02

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Job No.: CTCE/BBMP/MSV/W.No-07/CSR-256j/SAND-Gradation/2020-21

28.12.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, Yelahanka Zone, BBMP, Bangalore.
* Agency	:	**Sri. M.S. Venkatesh,** No-15, 4th Main, 11th Cross, Coffee Board Layout, Hebbal, Kempapura, Bangalore-24.
* Name of Work	:	BBMP Assets Fencing of Vacant BBMP Land (Including Parks Play Grounds and Garden) Ward No.07, BBMP, Bangalore.
*Reference	:	EE(Project)/Ynk Zone/WO/77/2020-21 Date:13.08.2020
*Sample ID	:	Sand Plastering
Test Method As Per	:	IS : 1542 : 1992 (RA-2019)
Sample Received on	:	26.12.2020
Date of Testing	:	28.12.2020
Report Issue Date	:	28.12.2020

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.50	95-100
2.36	97.30	95-100
1.18	95.30	90-100
600 Micron	90.60	80-100
300 Micron	47.40	20-65
150 Micron	9.30	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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